

Substitute for form 1449-PTO  <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  <i>(Use as many sheets as necessary)</i>			<b>Complete if Known</b>		
	1	of	9	Application Number	10/820,679-Conf. #8534
				Filing Date	April 8, 2004
				First Named Inventor	Ian Hunter
				Art Unit	1797
				Examiner Name	A. Soderquist
Sheet				Attorney Docket Number	65689CPDV(43382)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AA*	US-2004/0191924	09-30-2004	Hunter et al.	
	AB*	US-2002/0001544	01-03-2002	Hess et al.	
	AC*	US-6,812,030	11-02-2004	Ozbal et al.	
	AD*	US-5,427,908	06-27-1995	Dower et al.	
	AE*	US-5,580,717	12-03-1996	Dower et al.	
	AF*	US-4,663,163	05-05-1987	Hou et al.	
	AG*	US-5,585,275	12-17-1996	Hudson et al.	
	AH*	US-5,576,220	11-19-1996	Hudson et al.	
	AI*	US-6,107,059	08-22-2000	Hart	
	AJ*	US-5,242,974	09-07-1993	Holmes	
	AK*	US-4,701,304	10-20-1987	Horn et al.	
	AL*	US-20040132040-A1	07-08-2004	Hamill	
	AM*	US-20040132040-A1	07-08-2004	Hamill	
	AN*	US-20040132040-A1	07-08-2004	Hamill	
	AO*	US-20030219716	11-27-2003	Avdeef et al.	
	AP*	US-6,630,835	07-10-2003	Cheng et al.	
	AQ*	US-6,844,161	01-18-2005	Siani et al.	
	AR*	US-6,576,478	06-10-2003	Wagner et al.	
	AS*	US-6,429,025	08-06-2002	Parce et al.	
	AT*	US-6,406,869	06-18-2002	Glickman et al.	
	AU*	US-2004/0241636	12-02-2004	Michnick et al.	
	AV*	US-5,491,083	02-13-2006	Arentzen et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document		Publication	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	†*
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	BA	WO-99/61152-A1		12-02-1999	MJ Research, Inc.		
	BB	WO-2004/074818-A2		09-02-2004	BioTrove, Inc.		
	BC	WO-00/51735		09-08-2000	Glaxo Group Ltd et al.		
	BD	WO-01/87335		11-22-2001	Lilly Co Eli et al.		
	BE	WO-01/38583		05-31-2001	Diversa Corp		
	BF	WO-01/61054		08-23-2001	Univ Leland Stanford Junior et al.		

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	AW*	US-2003/0170610	09-11-2003	Cima et al.	
	AX*	US-5,433,975	07-18-1995	Roberts et al.	
	AY*	US-5,322,019	06-21-1994	Hyland	
	AZ*	US-5,175,209	12-29-1992	Beattie et al.	
	AA1*	US-5,722,370	03-03-1998	Koike et al.	
	AB1*	US-6,015,880	01-18-2000	Baldeschwieler et al.	
	AC1*	US-6,103,479	08-15-2000	Taylor	
	AD1*	US-6,136,592	10-24-2000	Leighton	
	AE1*	US-6,309,600	10-30-2001	Hunter	
	AF1*	US-2002/0049196	04-25-2002	Carpino et al.	
	AG1*	US-5,152,060	10-06-1992	Schubert et al.	
	AH1*	US-3,997,396	12-14-1976	Delente	
	AI1*	US-5,373,803	12-20-1994	Noguchi et al.	
	AJ1*	US-5,906,683	05-25-1999	Chen et al.	
	AK1*	US-1,236,137	08-01-1917	Bastow	
	AL1*	US-2,745,001	05-01-1956	Guth	
	AM1*	US-3,170,980	02-01-1965	Pritchard	
	AN1*	US-3,864,512	02-04-1975	Meadow	
	AO1*	US-4,110,165	08-29-1978	Cole et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document Country Code <sup>3</sup> -Number <sup>4</sup> -Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear
	BG	WO-00/56456	09-28-2000	Genencor Int	
	BH	WO-99/55461	11-04-1999	Corning Inc	
	BI	JP-63107057	05-12-1988	Hitachi Ltd	
	BJ	WO-97/00941	01-09-1997	Univ Utah Res Found	
	BK	WO-97/00943	01-09-1997	Bnfl Fluorchem Ltd et al.	
	BL	WO-02/87764	11-07-2002	Biotrove Inc	

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	AP1*	US-5,382,985	01-17-1995	Becker et al.	
	AQ1*	US-3,043,669	07-10-1962	Charles	
	AR1*	US-4,007,010	02-08-1977	Woodbridge, III	
	AS1*	US-4,065,263	12-27-1977	Woodbridge, III	
	AT1*	US-4,273,877	06-16-1981	Anagnostopoulos et al.	
	AU1*	US-4,990,459	02-05-1991	Maeda et al.	
	AV1*	US-5,009,846	04-23-1991	Gavet et al.	
	AW1*	US-5,108,926	04-28-1992	Klebe	
	AX1*	US-5,466,583	11-14-1995	Thomson et al.	
	AY1*	US-6,083,682	07-04-2000	Campbell et al.	
	AZ1*	US-6,514,750	02-04-2003	Bordenkircher et al.	
	AA2*	US-6,730,883	05-08-2004	Brown et al.	
	AB2*	US-5,710,381	01-20-1998	Atwood et al.	
	AC2*	US-5,475,610	12-12-1995	Atwood et al.	
	AD2*	US-5,602,756	02-11-1997	Atwood et al.	
	AE2*	US-6,737,026	05-18-2004	Bergh et al.	
	AF2*	US-4,453,805	06-12-1984	Ashkin et al.	
	AG2*	US-4,613,573	09-23-1986	Shibayama et al.	
	AH2*	US-4,683,195	07-28-1987	Mullis et al.	
	AI2*	US-4,683,202	07-28-1987	Mullis	
	AJ2*	US-4,734,192	03-29-1988	Champion et al.	
	AK2*	US-4,861,722	08-29-1989	Sano et al.	

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	BM	WO-02/30561	04-18-2002	Biotrove Inc et al.		
	BN	WO-03/02226	01-09-2003	Biotrove Inc		
	BO	DE-100 46 224	03-28-2002	Deepe, et al.		
	BP	EP-0 236 069	09-09-1987	Cetus Corporation		
	BQ	EP-0 402 888	12-19-1990	Behringwerke		
	BR	WO-02/78834	10-10-2002	Genospectra, Inc.		

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Sheet	4	of	9
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	AL2*	US-4,893,886	01-16-1990	Ashkin et al.	
	AM2*	US-4,932,806	06-12-1990	Eklund et al.	
	AN2*	US-4,965,188	10-23-1990	Mullis et al.	
	AO2*	US-5,038,852	08-13-1991	Johnson et al.	
	AP2*	US-5,100,627	03-31-1992	Buican et al.	
	AQ2*	US-5,192,980	03-09-1993	Dixon et al.	
	AR2*	US-5,219,727	06-15-1993	Wang et al.	
	AS2*	US-5,229,163	07-20-1993	Fox	
	AT2*	US-5,234,665	08-10-1993	Ohta et al.	
	AU2*	US-5,310,652	05-10-1994	Gelfand et al.	
	AV2*	US-5,322,770	06-21-1994	Gelfand	
	AW2*	US-5,333,675	08-02-1994	Mullis et al.	
	AX2*	US-5,407,800	04-18-1995	Gelfand et al.	
	AY2*	US-5,411,876	05-02-1995	Bloch et al.	
	AZ2*	US-5,455,008	10-03-1995	Earley et al.	
	AA3*	US-5,476,744	12-19-1995	Anno et al.	
	AB3*	US-5,476,774	12-19-1995	Wang et al.	
	AC3*	US-5,492,806	02-20-1996	Drmanac et al.	
	AD3*	US-5,504,007	04-02-1996	Haynes	
	AE3*	US-5,508,197	04-16-1996	Hansen et al.	
	AF3*	US-5,525,464	06-11-1996	Drmanac et al.	
	AG3*	US-5,538,848	07-23-1996	Livak et al.	

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	BS	WO-00/01798		01-13-2000	Cartesian Technologies, Inc.		
	BT	WO-02/26394		04-04-2002	Picoliter Inc.		
	BU	WO-02/40158		05-23-2002	Herfurth Laser Technology Ltd		
	BV	WO-02/55199		07-18-2002	Sequenom, Inc.		

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	AH3*	US-5,554,339	09-10-1996	Cozzette et al.	
	AI3*	US-5,561,058	10-01-1996	Gelfand et al.	
	AJ3*	US-5,561,071	10-01-1996	Hollenberg et al.	
	AK3*	US-5,593,839	01-14-1997	Hubbell et al.	
	AL3*	US-5,641,391	06-24-1997	Hunter et al.	
	AM3*	US-5,656,493	08-12-1997	Mullis et al.	
	AN3*	US-5,667,972	09-16-1997	Drmanac et al.	
	AO3*	US-5,720,923	02-24-1998	Haff et al.	
	AP3*	US-5,780,233	07-14-1998	Guo et al.	
	AQ3*	US-5,785,926	07-28-1998	Seubert et al.	
	AR3*	US-5,871,908	02-16-1999	Henco et al.	
	AS3*	US-5,879,632	03-09-1999	Demers	
	AT3*	US-5,897,842	04-27-1999	Dunn et al.	
	AU3*	US-5,928,907	07-27-1999	Woudenberg et al.	
	AV3*	US-5,942,432	08-24-1999	Smith et al.	
	AW3*	US-5,962,316	10-05-1999	Beach et al.	
	AX3*	US-5,994,056	11-30-1999	Higuchi	
	AY3*	US-6,001,586	12-14-1999	Schellenberger	
	AZ3*	US-6,020,141	02-01-2000	Pantoliano et al.	

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	BW	WO-02/89982	11-14-2002	Massachusetts Institute of Technology	
	BX	WO-03/35239	05-01-2003	Sequenom Inc.	
	BY	WO-03/42697	05-22-2003	Genospectra, Inc.	
	BZ	WO-04/18104	03-04-2004	BioTrove, Inc.	

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	AF4*	US-5,656,493	08-12-1997	Mullis et al.	
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	AR4*	US-6,001,586	12-14-1999	Schellenberger	
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	AT4*	US-6,086,825	07-11-2000	Sundberg et al.	
	AU4*	US-6,088,100	07-11-2000	Brenan et al.	
	AV4*	US-6,090,251	07-18-2000	Sundberg et al.	
	AW4*	US-6,103,199	08-15-2000	Bjornson et al.	
	AX4*	US-6,136,566	10-24-2000	Sands et al.	
	AY4*	US-6,149,815	11-21-2000	Sauter	
	AZ4*	US-6,174,670	01-16-2001	Wittwer et al.	
	AA5*	US-6,197,563	03-06-2001	Erich et al.	
	AB5*	US-6,235,473-B1	05-22-2001	Friedman et al.	
	AC5*	US-6,245,505	06-12-2001	Todd et al.	
	AD5*	US-6,251,343	06-26-2001	Dubrow et al.	
	AE5*	US-6,271,024	08-07-2001	Sve et al.	
	AF5*	US-6,296,702	10-02-2001	Bryning et al.	
	AG5*	US-6,284,113	09-04-2001	Bjornson et al.	
	AH5*	US-6,312,103-B1	11-06-2001	Haluzak	

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Substitute for form 1449/IPTO  <h2 style="text-align: center; margin: 0;">INFORMATION DISCLOSURE STATEMENT BY APPLICANT</h2> <p style="text-align: center; margin: 5px 0;">(Use as many sheets as necessary)</p>			<b>Complete if Known</b>	
			<b>Application Number</b>	10/820,679-Conf. #8534
			<b>Filing Date</b>	April 8, 2004
			<b>First Named Inventor</b>	Ian Hunter
			<b>Art Unit</b>	1797
			<b>Examiner Name</b>	A. Soderquist
<b>Sheet</b>	7	of	<b>Attorney Docket Number</b>	65689CPDV(43382)

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.	Document Number Number-Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AI5*	US-6,337,435	01-08-2002	Chu et al.	
	AJ5*	US-6,353,774-B1	03-05-2002	Goldenberg et al.	
	AK5*	US-6,391,559	05-21-2002	Brown et al.	
	AL5*	US-6,399,396	06-04-2002	Bass	
	AM5*	US-6,399,952	06-04-2002	Maher et al.	
	AN5*	US-6,404,166	06-11-2002	Puchianu et al.	
	AO5*	US-6,410,331	06-25-2002	Schultz et al.	
	AP5*	US-6,454,924	09-24-2002	Jedrzejewski et al.	
	AQ5*	US-6,485,690	11-26-2002	Pfost et al.	
	AR5*	US-6,485,944	11-26-2002	Church et al.	
	AS5*	US-6,495,104	12-17-2002	Unno et al.	
	AT5*	US-6,503,757	01-07-2003	Chow	
	AU5*	US-6,544,737	04-08-2003	Blumenfeld et al.	
	AV5*	US-6,572,828	06-03-2003	Potyraillo et al.	
	AW5*	US-6,579,358	06-17-2003	Delucas et al.	
	AX5*	US-6,582,914	06-24-2003	Caldwell et al.	
	AY5*	US-6,638,761	10-28-2003	Shin et al.	
	AZ5*	US-6,642,000	11-04-2003	Strizhkov et al.	
	AA6*	US-6,649,402	11-18-2003	Van der Weide et al.	
	AB6*	US-6,664,044	12-16-2003	Sato et al.	
	AC6*	US-6,677,151	01-13-2004	Sandell	
	AD6*	US-6,682,702	01-27-2004	Barth et al.	
	AE6*	US-6,689,323	02-10-2004	Fisher et al.	
	AF6*	US-6,703,236	03-09-2004	Atwood	
	AG6*	US-6,706,538	03-16-2004	Karg et al.	
	AH6*	US-6,821,486	11-23-2004	Akporiaye et al.	
	AI6*	US-6,841,663	01-11-2005	Lefkowitz et al.	
	AJ6*	US-6,848,462	02-01-2005	Covington et al.	
	AK6*	US-6,878,554	04-12-2005	Schermer et al.	
	AL6*	US-7,223,363	05-29-2007	McNeely et al.	
	AM6*	US-7,300,798	11-27-2007	Perbost et al.	
	AN6*	US-20010053334	12-20-2001	Chen et al.	
	AO6*	US-20020001546	01-03-2002	Hunter et al.	
	AP6*	US-20020003177	01-10-2002	O'Connor et al.	

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First Named Inventor			Ian Hunter	
Art Unit			1797	
Examiner Name			A. Soderquist	
Attorney Docket Number			65689CPDV(43382)	

Sheet	8	of	9
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U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No.†	Document Number Number-Kind Code‡ (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
	AQ6*	US-20020015994	02-07-2002	Schellenberger et al.	
	AR6*	US-20020072096	06-13-2002	O'Keefe et al.	
	AS6*	US-20020094533	07-18-2002	Hess et al.	
	AT6*	US-20020110900	08-15-2002	Jovanovich et al.	
	AU6*	US-20020119578	08-29-2002	Zaffaroni et al.	
	AV6*	US-20020151040	10-17-2002	O' Keefe et al.	
	AW6*	US-20050130213	06-16-2005	Morrison	
	AX6*	US-20030119042	06-26-2003	Franco De Sarabia Rosado et al.	
	AY6*	US-20030039585	02-27-2003	Freeman	
	AZ6*	US-20030080087	05-01-2003	Stelzle	
	AA7*	US-20030108726	06-12-2003	Schembri et al.	
	AB7*	US-20030180807	09-25-2003	Hess et al.	
	AC7*	US-20030186350	10-02-2003	Newell	
	AD7*	US-20030207099	11-06-2003	Gillmor et al.	
	AE7*	US-20040037748	02-26-2004	Hasan et al.	
	AF7*	US-20040209303	10-21-2004	Martin	
	AG7*	US-20040023223	02-05-2004	Thompson et al.	
	AH7*	US-20040171166	09-02-2004	Hunter	
	AI7*	US-20040191924	09-30-2004	Hunter et al.	
	AJ7*	US-20040208792	10-21-2004	Linton et al.	
	AK7*	US-20040235005	11-25-2004	Friedlander et al.	
	AL7*	US-20060057209	03-16-2006	Chapman et al.	
	AM7*	US-20060194108	08-31-2006	Drews et al.	
	AN7*	US-20060105433	05-18-2006	Bickmore et al.	

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Sheet	9	of	9		

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume- issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
	CA	CRC Handbook of Chemistry and Physics, Ed. Robert C. Weast, Ph.D. 65th Edition. 1984-1985. PPF-20 - F-35.	
	CB	Adlercreutz et al., "Oxygen Supply to Immobilized Cells," <i>European Journal of Applied Microbiology Biotechnology</i> , Vol. 16 pp. 165-170 (1982)	
	CC	KANIGAN et al., "Living Chips for Drug Discovery", 3926 Proc. SPIE 172-180 (2000).	
	CD	Colin J. BRENAN et al., "A massively parallel microfluidics platform for storage and ultra high throughput screening", 4626 Proc. SPIE 560-69 (2002).	
	CE	Sosnowski, Luke, "Manufacturing Methods for High Density Micro-Channel Arrays" (June 2000) (Master's Thesis) (Massachusetts Institute of Technology Dep't of Mechanical Engineering).	
	CF	Prescott et al., <i>Microbiology</i> 31, 114-16 (1990)	
	CG	J.H. Brown, Charts for Counting Bacterial Colonies, 37 Am. J. Pub. Health Nations Health 206-07 (1947)	
	CH	Polokoff et al, Isolation of Somatic Cell Mutants Defective in the Biosynthesis fo Phosphatidylethanolamine, 256 J. Biological Chem. 7687-90 (1981)	
	CI	Coleman et al., Phospholipid Synthesis in Isolated Fat Cells, 252 J. Biological Chem. 3050-56 (1977)	
	CJ	Colin S. Cooper, Applications of microarray technology in breast cancer research, 3(3) Breast Cancer Res. 158-75 (2001).	
	CK	Elizabeth Zubritsky, Spotting a microarray system, 4(5) Modern Drug Discovery 59 (May 2001)	
	CL	de Macario et al., Chemical Abstr. 67622t (1985)	
	CM	de Macario et al., 121 Methods in Ezymology 509-25 (1986)	
	CN	de Macario et al., Adaptation of the Slide Immunozytic Assay for Quantification of DNA Hybridization: SIA-DNA, 8 Biotechniques 210-17 (1990).	
	CO	L.J. Kricka & P. Wilding, Microchip PCR, 377 Anal. Bioanal. Chem. 820-25 (2003).	
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	CQ	Mann A. Shoffner et al. Chip PCR. I. Surface passivation of microfabricated silicon-glass chips for PCR, 24(2) Nucleic Acids Research 375-79 (1996).	
	CR	Da-Sheeng Lee et al., A novel real-time PCR machine with a miniature spectrometer for fluorescence sensing in a micro liter volue glass capillary, 100 Sensors and Actuators B 401-10 (2004).	
	CS	Tian-Lu CHENG et al., "Membrane-Tethered Proteins for Basic Research, Imaging and Therapy", Medical Research Reviews (May 14, 2008).	

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